Material flow



The material flow of our company in FY 2022 is reported here. To provide society with value through our business activities, we have inputted the following resources. On top of that, target values are set and activities are underway to reduce the environmental load generated (KPI). Further, Scope 1 emissions from MAEDA CORPORATION's construction work are calculated while including CO2 emissions from fuels consumed by our subcontractors and those from the transportation of soil generated from construction and construction byproducts, in accordance with the aggregation method of the Japan Federation of Construction Contractors.

Input resources

Construction*1 Monthly average ope				
Electric energy 47,566,000 kWh	LPG	51 t	City gas	3,145 m
* Electricity generated 100% from renewable energy was used.	Light oil	24,563 kl	Gasoline	308 k
A-type heavy oil 20 kl	Kerosene	153 kl	Clean water	252 7572
			consumption	353,/5/ 11
Office*2 Rase: 40 places Total we	rkforce: 546 000 people		consumption	353,/5/ 111
Office*2 Base: 40 places Total wo	rkforce: 546,000 peopl	e	consumption	353,757 m
Office*2 Base: 40 places Total wo	rkforce: 546,000 peopl	le 242 kl	Light oil	2 kl
				,

Construction

Energy

Equipment and materials

Concrete 749,000 m Steel material 96,000 t Cement 18,000 t

- **★** Green procurement
- Material system 13 items
- Exterior material and interior material system 7 items
- Equipment system 10 items
- * For details, see the "List of green procurement amount" shown below.

Office

Paper purchase volume 7,603,000 sheets

Scope 3

Energy-related activities

13,053 t-CO₂

Employees' commuting

1,713 t-CO₂

INPUT

Scope 3

8 locations

Purchased products and services

585,581 t-CO₂

Transportation and delivery (upstream)

4,540 t-CO₂

Recycled in

INPUT

Scope 3

Use of sold products

1,702,279 t-CO₂

Disposal of sold products

82,604 t-CO₂

Business activities*3

The value created in society

	Road	35.8 billion yen
	Forestry conservancy and river improvement	17 billion yen
ring	Railroad	19.4 billion yen
inee	Water and sewage	8.7 billion yen
Civil engineering	Land development	9.5 billion yen
Ci	Harbor/airport	3.1 billion yen
	Electric line	0 billion yen
	Others	57.9 billion yen
	Residence	75.5 billion yen
	Education, medical care, etc.	22.8 billion yen
ling	Factories, warehouses, etc.	59.6 billion yen
Building	Office and government buildings	26.2 billion yen
	Commerce, lodgings, etc.	9.5 billion yen
	OUL	24.7.6:0:
	Others	21.7 billion yen

Recycled construction byproducts

Concrete	209,5	11,000 t
Asphalt concrete	69,7	43,000 t
Wood waste	19,3	55,000 t
Construction sludge	210,51	6, 000 t
Recycling rate (including disma	ntling)	97.8 %
Recycling rate (excluding disma	intling)	97.3 %

Recycling

pollution Construction 73,718 t-CO₂ CO₂ emissions (due to the transportation of waste and generated soil 5,366 t-CO₂) Air (due to power usage 0 t-CO₂) das 433 t effect Sox 65 t Office eenhouse 678 t-CO₂ CO₂ emissions 0 t-CO₂) (due to power usage

74,396 t-CO₂

Environmental load*4

OUTPUT

Construction

Total CO₂ emissions

OUTPUT

ţ	Construction waste	585,741
2	Construction waste	363,741
byproducts	(industrial waste subject to special management	236 t
yp	Construction generated soil	1,260,000 m
	Number of cards of a manifesto issued	103,437 sheets
Construction	Office	
str	Non-industrial waste	85,338
NO.	Total waste	671,079
0	Discharge*5	35,009 m

Scope 3

(including dismantling) 97.8 % Recycling rate	Scope 3	osa
(excluding dismantling) 97.3 %	Transportation of byproducts	disp
	8,455 t-CO ₂	inal
mount of energy was calculated based on a sampli	ling supvoy	i.
otal of head office and branch buildings, etc.	ing survey.	

*1: The am *2: The total

The works completed in FY 2019 were totaled.

The total of construction works

(completed construction + continuing construction) in FY 2019.

*5: Only draining to a sewage system is considered.

Final disposal amount of waste

Basic unit of final 3.0 t/100 million yen disposal amount

12,733 t

List of green procurement amount

List of green procureme	nt amount
Blast furnace concrete	147,818 m
Fly ash concrete	68,252 m
Recycled concrete	40 m
Electric furnace H-steel, steel sheet pile, and reinforcing steel	93 t
Reutilization of construction generated soil	26,281 m²
Treated soil recycled from construction sludge	15,252 m²
Recycled aggregate, etc.	153,631 t
Recycled hot asphalt mixture	3,353 t
Alternative form	8,646 m
PC material	54,708 m
Domestic timber, structural m	naterial 452 m
Domestic timber, temporary u	ısage 0 m ²
EPO certification products	1.995 billion yen

- Low-E glass 24,269 m 22,353 m Multi-layered glass Rooftop greening Wall greening Regenerated wood board (particleboard, fiberboard, woody cement board)
- Domestic wood finishing material 18 m Non-fluorocarbon
- Earth thermal utilization 1,660 m 0 kW system (heat pump) 272 m Photovoltaic power 17 kW generation Solar heat utilization 0 m 134,204 m Wind power generation 0 kW 0 kW Fuel cell LED lighting 11,619 units EM electric wire 112 m insulation material 554,094 m Water-saving toilet 81 sets High-efficiency air conditioner 0 units

blind

Automatic control